

WHAT IS CLAIMED IS:

1. A bag manufacturing and packaging apparatus, comprising:  
a bag manufacturing unit that manufactures bags filled with articles; and  
5 a mounting unit that mounts bags manufactured by said bag manufacturing unit to a strip, said mounting unit having  
a transfer mechanism that transfers bags manufactured by said bag manufacturing unit diagonally downward, and  
a fixing mechanism that affixes bags to the strip after said transfer  
10 mechanism transfers the bags.
2. The bag manufacturing and packaging apparatus as set forth in claim 1, wherein  
said bag manufacturing unit discharges manufactured bags downward; and  
15 said transfer mechanism transfers bags to a position in which a bag that will be mounted to the strip will not interfere with a next bag that will be discharged from said bag manufacturing unit.
3. The bag manufacturing and packaging apparatus as set forth in claim 1,  
20 further comprising  
a strip roll that reels out the strip, and  
a strip transport unit that transports strips reeled out from the strip roll to said fixing mechanism.
- 25 4. The bag manufacturing and packaging apparatus as set forth in claim 3, further comprising  
a tension control mechanism for maintaining the tension of a strip transported by said strip transport unit in a predetermined range.
- 30 5. The bag manufacturing and packaging apparatus as set forth in claim 3, wherein  
said strip transport unit transports a plurality of strips to said fixing mechanism; and

said fixing mechanism affixes bags to at least one of the plurality of strips.

6. The bag manufacturing and packaging apparatus as set forth in claim 3,  
further comprising

5 a remaining amount detecting unit that detects the amount of strips remaining  
in said strip roll.

7. The bag manufacturing and packaging apparatus as set forth in claim 1,  
wherein

10 there is an open space below said bag manufacturing unit on a front side  
relative to a point where said bag manufacturing unit releases the bags downward;  
said transfer mechanism transfers the bags toward a rear side; and  
said bag manufacturing and packaging apparatus further comprises a strip-  
attached-bag discharge unit that discharges bags that are mounted onto the strip by  
15 said fixing mechanism toward the front side.

8. A bag manufacturing and packaging apparatus, comprising:  
a bag manufacturing unit that manufactures bags filled with articles, said bag  
manufacturing unit including

20 a transverse sealing mechanism that seals vertical ends of bags, said  
transverse sealing mechanism having a pair of sealing members  
that grasps both of the ends of a bag and applies heat and  
pressure while moving downward to seal the ends, said pair of  
sealing members releasing the ends of a bag at a release  
25 position, which is fixed within said bag manufacturing and  
packaging apparatus without regard to a distance by which said  
pair of sealing members moves downward while grasping the  
bag; and

a mounting unit having

30 a fixing mechanism that affixes bags that are manufactured by said bag  
manufacturing unit to a strip at a fixing position.

9. The bag manufacturing and packaging apparatus as set forth in claim 8,  
wherein  
said mounting unit has a holding mechanism that holds bags manufactured by  
said bag manufacturing unit; and  
5 said holding mechanism holds bags in a holding position, which is fixed  
relative to said release position.
10. The bag manufacturing and packaging apparatus as set forth in claim 9,  
wherein  
10 said fixing position is spaced away from said holding position, and  
said mounting unit further has a transfer mechanism that transfers said holding  
mechanism such that bags held by said holding mechanism are moved from said  
holding position to said fixing position.
- 15 11. The bag manufacturing and packaging apparatus as set forth in claim  
10, wherein  
said holding position and said fixing position are offset in a front-rear  
direction.
- 20 12. A bag manufacturing and packaging apparatus, comprising:  
a bag manufacturing unit that manufactures bags filled with articles; and  
a mounting unit that mounts bags manufactured by said bag manufacturing  
unit to a strip, said mounting unit having  
a holding mechanism having a main body and a pair of grasping arms  
25 for grasping ends of bags that are manufactured by said bag  
manufacturing unit,  
a rail disposed so as to be inclined from a frontward upper side to a  
rearward lower side,  
a sliding member repetitively movably along said rail,  
30 a supporting member fixedly coupled to said sliding member via a rod,  
said main body of said holding mechanism being fixedly  
attached to said supporting member, such that said sliding

member, said supporting member, and said holding mechanism  
repetitively move diagonally together, and  
a fixing mechanism that affixes bags to bags held by said holding  
mechanism are moved by said sliding member.

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13. The bag manufacturing and packaging apparatus as set forth in claim  
12, wherein

said bag manufacturing unit includes a transverse sealing mechanism that seals  
vertical ends of bags, said transverse sealing mechanism having a motor and a pair of  
10 sealing members that grasps both of the ends of a bag,

said sliding member is operatively coupled to said motor via a pulley, so as to  
be mechanically linked to movement of said sealing jaws.